

(57) Abstract

The invention is related to a data loading method in a communication system where sub-carriers include eigenmodes, comprising, for instance: arranging eigenmodes into a predetermined number of clusters, each cluster comprising eigenmodes of different quality levels; pre-allocating transmission power to the eigenmodes with the aid of the calculated required power for achieving the approximated signal-to-noise ratio; determining collective transmission power to be allocated to each cluster based on the pre-allocation; allocating collective transmission power to the eigenmodes.

(Figure 2)